

SEQUENCE LISTING

5 <110> Olivera, Baldomero M.
McIntosh, J. Michael
Yoshikami, Doju
Cartier, G. Edward
Luo, Siqin
University of Utah Research Foundation

10 <120> Uses of Alpha-Conotoxin Peptides
<130> Uses of Alpha-Conotoxins

15 <140>
<141>
<150> US 60/080,588
<151> 1998-04-03

20 <150> US 60/070,153
<151> 1997-12-31
<160> 13

25 <170> PatentIn Ver. 2.0
<210> 1
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30 <213> Artificial Sequence
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<223> Description of Artificial Sequence:generic
alpha-conotoxin sequence

35 <220>
<221> PEPTIDE
<222> (1)..(6)
<223> Xaa at residue 1 is des-Xaa, Tyr, mono-iodo-Tyr or
40 di-iodo-Tyr; Xaa at residue 2 is any amino acid;
Xaa at residue 5 is any amino acid; Xaa at residue
6 is any amino acid.
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45 <221> PEPTIDE
<222> (8)..(12)
<223> Xaa at residues 8, 10, 11 and 12 may be any amino
acid; Xaa at residues 13, 14, 15 and 16 may be
des-Xaa or any amino acid.

50 <400> 1
Xaa Xaa Cys Cys Xaa Xaa Pro Xaa Cys Xaa Xaa Xaa Xaa Xaa
1 5 10 15
55 Cys
<210> 2
60 <211> 16
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<213> Conus magus
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Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu His Ser Asn Leu Cys
1 5 10 15

5 <210> 3
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<223> Description of Artificial Sequence:Tyr derivative
of C. magus MII

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Cys

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25 <220>
<223> Description of Artificial Sequence:FAT derivative
of C. magus MII

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35 <210> 5
<211> 16
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40 <400> 5
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1 5 10 15

45 <210> 6
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50 <220>
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of C. aulicus AuIA

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Cys

60 <210> 7
<211> 15

<212> PRT
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5 <400> 7
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10 <210> 8
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15 <400> 8
Gly Cys Cys Ser Tyr Pro Pro Cys Phe Ala Thr Asn Ser Gly Tyr Cys
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20 <210> 9
<211> 16
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25 <400> 9
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30 <210> 10
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45 <210> 11
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60 <210> 12
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<213> Conus imperialis
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